A Short Course Pocket Guide

to the

Nikon Coolpix 4500

The Editors of ShortCourses.com

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A Short Course Pocket Guide Nikon Coolpix 4500

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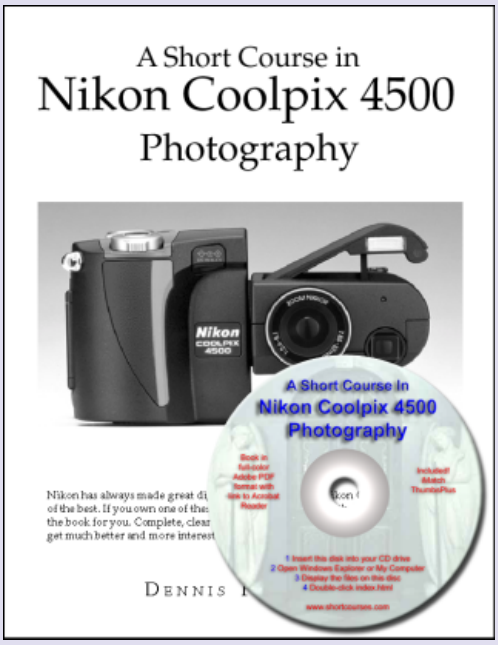
Preface

Short Courses prides itself on providing helpful and accurate information to the digital photography community. This Pocket Guide and others like it are made available at no cost to help you get the most out of your camera.

The step-by-step instructions in this free pocket guide are excerpted from the comprehensive book "A Short Course in Nikon Coolpix 4500 Photography" and its accompanying e-book. It will be a useful guide when out in the field. To learn more about the procedures featured here, the context in which they are used, and tips that make them even more useful, check out the book from which they are excerpted by visiting the Short Course's bookstore at:

http://www.shortcourses.com

The page number cross-references within this guide's instructions refer to pages in the accompanying book where you will find the procedures fully discussed and all options decsribed.



ShortCourses.com publishes books on Canon, Nikon, Olympus, and Sony cameras as well as textbooks and other books on digital photography including managing your digital images and taking table-top studio photos for ue on the Web or in print. All of these books are available through our on-line bookstore. Please come and visit us.

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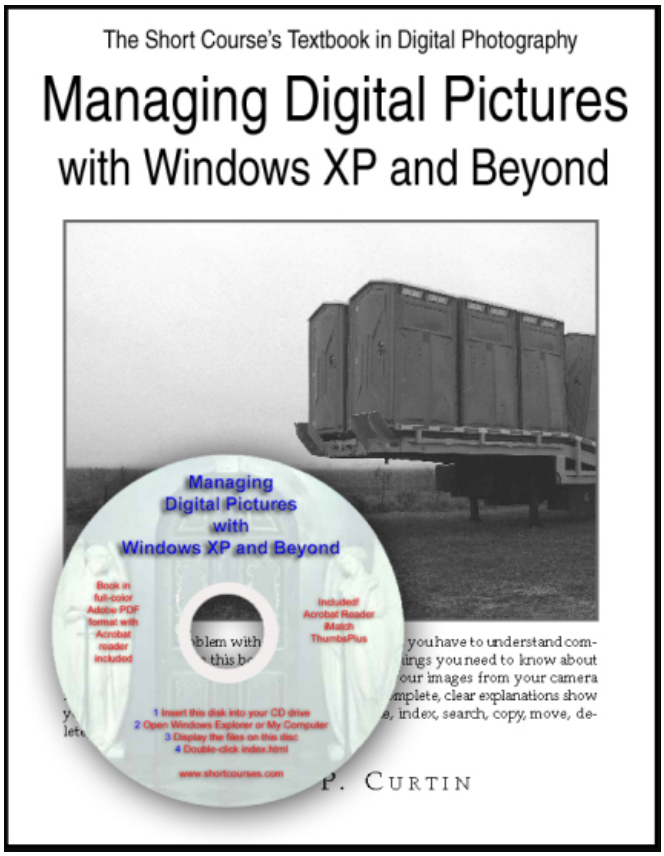
Managing Your Digital Images

Since there are no film costs when shooting with your 4500, you'll soon be overrun by images you've taken. To help you organize, manage, and use this ever-expanding image collection, we've published the guide "Managing Digital Pictures with Windows XP and Beyond." This book explains clearly everything you need to know about how you store, transfer, and organize your images. It gives you the answer to the question I hear most often "where have my digital images gone?"



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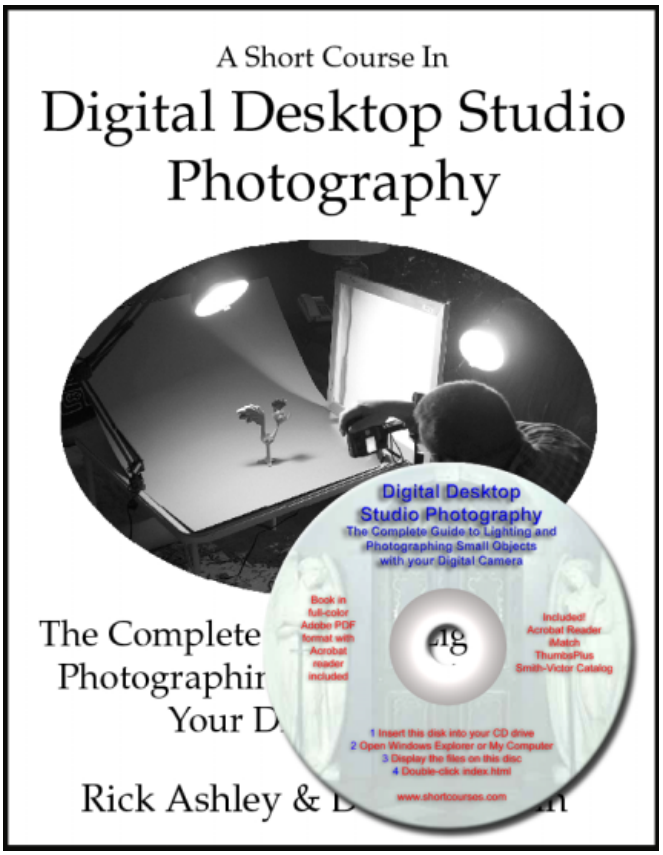
Digital Desktop Studio Photography

If you want to photograph small subjects—coins, stamps, glassware, pottery, jewlery, or anything else small enough to fit on a desktop, here is the guide you need. Using your digital camera's white balance setting, you can photograph under almost any kind of light, including desk lamps you may already have. In this book you'll learn the entire range of possibilities from inexpensive compact fluorescent bulbs to expensive studio strobes. You'll also learn about camera settings, backgrounds, composition, and everything else you need to know to master this hot new field. The book even has a chapter on placing your images on eBay.



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Nikon Batteries and Chargers

You will find you almost certainly need a second battery for your camera so one can be charging while you are using the other. You may also find that you need a faster or better charger than the one that comes with the camera. The place to go for these needs is GreenBatteries.com.

http://www.greenbatteries.com

http://www.greenbatteries.com

The ezCube

While working on the book "Digital Desktop Studio Photography" we looked high and low for lighting products that were easy to use AND easy to store. We are now making arrangements to make these products available to you at our partner site. Neither ShortCourses nor the authors benefit financially from any of these sales. We're recommending them because they work! Lets see why.

These two objects are normally difficult to photograph because of the recesses, textures, and reflective surfaces. What made these shots posssible, by a photographer with very limited experience, was a light tent called the ezCube. When lit from outside by natural light, or lamps of some kind, the cube is flooded with soft, shadowless light and makes even difficult shots

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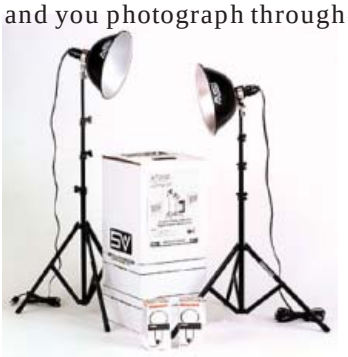
fast and easy.

Here's what the light tent looks like with a product inside it. The front cover has been pulled back so you can look inside. Normally, the cover is closed and you photograph through a slit.



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The best lights we've been able to find are those from Smith-Victor. They are high-quality and low cost. To make the lights even better, we replaced the incandescent bulbs with compact flourescent lightbulbs (CFLs) that are daylight balanced, last almost forever, and run cool.

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Taking a Picture in Auto Mode

1. Press the power switch toward *ON* and then release it. Swivel the lens to a comfortable position, remove the lens cap, and check the number of pictures remaining in the lower right corner of the monitor.
2. Compose the image in the viewfinder making sure the subject that you want sharpest is in the focus brackets in the center of the viewfinder.
3. Press the shutter button halfway down so the camera can set focus and exposure. When these are set, the green autofocus lamp next to the viewfinder glows steady. If the camera has problems focusing, the lamp flashes (page 64). If the light is dim, the flash will pop up (page 100).
4. Press the shutter button all the way down to take the picture. The camera beeps, the image is displayed on the monitor, and the AF lamp next to the viewfinder flashes green as the image is saved to the CompactFlash card.
5. When done, press the power switch toward *OFF* and release it. Replace the lens cap.

Using Menus

■ **To display the menu** in any mode, press the MENU button.

■ **To move down (or up) a menu to highlight commands**, press the down (or up) point on the Multi Selector to move the green highlight. As you highlight a command, it displays a right-point, rotate, or press-down icon telling you what action to perform.

■ **To move between pages of multipage menus**, highlight the last (or first) item on the menu and press the down (or up) point on the Multi Selector. You can also page through long menus by pressing the MENU button when *MENU NEXT PAGE* is displayed in the lower right corner of the menu.

■ **To display a submenu** when a highlighted menu command displays a right-pointing icon, press the right point on the Multi Selector. (To hide the submenu, press the left point.)

■ **To set (activate) a highlighted command** (one with a press-down icon), press down the center point on the Multi Selector. The setting applies immediately. This means you can change a setting, take a picture, and the menu will reappear so you can change the setting again. This is a great way to get just the results you want in difficult situations.

■ **To move between the main and Set-up menus** in P, S, A, or M modes, press the up point on the Multi Selector until no menu item is highlighted in green, then press the right or left point to highlight the other menu icon. Press the down point to activate the menu.

■ **To exit the menu**, press the MENU button until *MENU OFF* is displayed in the lower right corner of the menu, then press it again or press the left point on the Multi Selector.

Resetting the menus

1. With the camera in P, A, S, or M mode, press the MENU button to display the shooting menu.
2. Press the down point on the Multi Selector to highlight *Reset All* and press the right point to display a submenu.
3. Press the down point on the Multi Selector to highlight *Reset* and press the center or right point to select it and reset the commands.
4. Press the MENU button to hide the menu.

Reviewing Images

1. With the camera in any shooting mode, press the Playback button once to see the last photo you took one-quarter the size of the screen (you can scroll through these small images). Press Playback again to see the image full-screen. If there isn't at least one photo on the CF card you'll get the message "*Card contains no images*."
2. With an image displayed full-screen, use any of the procedures described in the QuickSteps box "*Managing Your Images*."
3. To resume shooting, press the shutter button halfway down.

Managing Your Images

■ **To display one image after another**, press the left / up or right / down points on the Multi Selector. Hold a point down to scroll quickly through the images as you watch the image numbers on the monitor.

■ **To delete the displayed image**, press the delete button marked with the trash can icon above it. When prompted to confirm the deletion, press the down point on the Multi Selector to highlight *Yes*, then press the center or right point to delete the image.

■ **To turn the information display on or off**, press the Monitor button once or twice.

■ **To scroll through up to five screens of information** about the displayed image and camera settings (including the firmware version), rotate the Command Dial. One page shows a histogram illustrating the levels of luminance in the image (page 52). Some of the same information is also stored in a TXT file that you can read with any word processing program (page 54). If you see only the histogram screen no matter how much you rotate the Command Dial, press the Monitor button twice to turn the monitor's information display on.

■ **To play a movie** (page 121) when the first frame is displayed full-screen on the monitor (it's marked with a movie icon), press down the Multi Selector's center point once to load the movie and again to play it. Press the same point to pause and restart the movie. While paused, press the other points on the Multi Selector to scroll through frames. Press the zoom buttons to adjust the sound volume.

■ **To add a voice memo** to the currently displayed image (page 120), hold down the FUNC button on top of the camera and speak into the microphone. To play back a voice memo, press and release the FUNC button. Adjust volume with the zoom buttons. To delete the voice memo, press the button with the trash can icon while it's playing.

Using Playback Zoom

1. With the camera in any shooting mode, press the Playback button twice to display full-screen the last picture you took.
2. Press or hold down the zoom in (T) button marked with the magnifying glass icon to zoom the image up to 6x. The amount of zoom is displayed in the upper left corner of the monitor.
3. To scroll around the zoomed image, press the points on the Multi Selector.
4. To cancel zoom, press the zoom-out (W) button.

Using Thumbnail Playback

1. With the camera in any shooting mode, press the Playback button twice to display full-screen the last picture you took.
2. Press the zoom out (W) button marked with the thumbnail grid icon once to display 4 thumbnails and twice to display 9.
3. Use any of the following commands when viewing thumbnails:

   ■ **To move the green selection frame from one image to another**, press the points on the Multi Selector.

   ■ **To move forward or back a page at a time**, rotate the Command Dial.

   ■ **To enlarge the selected thumbnail to fill the screen**, press the zoom in (T) button twice if viewing nine thumbnails, or once if viewing four.

   ■ **To delete the selected image**, press the delete button marked with the trash can icon. When prompted to confirm the deletion, press the down point on the Multi Selector to highlight *Yes*, then press the center or right point to delete the image.

Deleting Some or All Images

1. With the camera in any shooting mode, press the Playback button twice to display full-screen the last picture you took.
2. Press the MENU button, press the down point on the Multi Selector to highlight *Delete*, then press the right point to display a list of choices.
3. Press the down or up point on the Multi Selector to do one of the following:

   ■ Highlight *Erase All Images* and press the center or right point to select it and display a screen asking you to confirm the deletion.

   ■ Highlight *Selected Images* and press the center or right point to select it and display 6 thumbnails. Press the left and right points to scroll the blue frame through the thumbnail images and press the up or down point to mark images for deletion with a trash can icon. (You use the same procedures to unselect images.) When done selecting images, press down the Multi Selector's center point to display a screen asking you to confirm the deletions.

4. Press the down or up point on the Multi Selector to highlight *Yes* and press the center or right point to select it.
5. Press the MENU button to hide the menu.

Turning Disable Delete On and Off

1. With the camera in P, S, A, or M mode, press MENU button to display the shooting menu.
2. Press the right point on the Multi Selector to highlight the Set-up menu icon, then press the down point to activate the Set-up menu.
3. Press the down or up point on the Multi Selector to highlight *Disable Delete*, and press the right point to display a list of choices.
4. Press the down or up point on the Multi Selector to highlight *On* or *Off*, then press the center or right point to select it.
5. Press the MENU button to hide the menu.

Protecting Images

1. With the camera in any shooting mode, press the Playback button twice to display full-screen the last picture you took.
2. Press the MENU button, press the up or down point on the Multi Selector to highlight *Protect*, and then press the right point to select it and display 6 thumbnail images.
3. Use the left or right point on the Multi Selector to highlight a thumbnail image and press the up or

down point to protect it and mark it with a key icon. (You use the same procedures to remove the icon.)

4. When finished marking images, press the Multi Selector's center or right point to complete the procedure.
5. Press the MENU button to hide the menu.

Displaying a Slide Show

1. With the camera in any shooting mode, press the Playback button twice to display the last picture you took full-screen.
2. Press the MENU button, press the up or down point on the Multi Selector to highlight *Slide Show* and press the right point on the Multi Selector to display a list of choices.
3. Do one of the following:

   ■ Select *Start* and press the right point on the Multi Selector to begin the show. To pause and restart the show, press the center point. When paused, you can press the other points to scroll through frames. To cancel the show press MENU or press the shutter button halfway down.

   ■ Highlight *Frame Intvl* and press the center point on the Multi Selector to display a list of times ranging from 2 seconds to 10 (3 is the default). Highlight the interval time you want to use and press the center or right point to select it and start the slide show. This sets the minimum time, but it may be longer for large files because they take longer to load.
4. When the slide show ends, press MENU to quit, or highlight *Restart* or *Frame Intvl*, and press the center or right point on the Multi Selector again to continue. A show ends automatically after 30 minutes if left unattended.

Connecting the Camera to a TV

1. Plug the black plug of the cable included with your camera into the camera's A / V out jack.
2. Plug the yellow plug into the TV's video in jack and the white plug into the audio-in jack.
3. Select NTSC or PAL modes using the *Video Mode* command on the playback mode's Set-up menu.

Hiding and Unhiding Images

1. With the camera in any shooting mode, press the Playback button twice to display full-screen the last picture you took.
2. Press the MENU button, press the up or down point on the Multi Selector to highlight *Hide Image* and press the right point to select it.
3. Use the left or right point on the Multi Selector to highlight a thumbnail image and press the up point to mark it with the hidden image icon. (You use the same procedures to remove the icon.)
4. Press the Multi Selector's center point to complete the procedure.
5. Press the MENU button to hide the menu.

Selecting an Image Quality and Size

1. Press the MENU button, then do one of the following:

   ■ In P, A, S, M or Auto mode, press the down point on the Multi Selector to highlight *Image Quality* or *Image Size*.

   ■ In any Scene mode, press the down point on the Multi Selector to highlight the image quality icon (see left) and press the center point to select it. Press the down point on the Multi Selector to highlight *Image Quality* or *Image Size*.
2. Press the right point on the Multi Selector to display choices, press the up or down point to highlight your choice, then press the center or right point to select it.

Changing Shooting Modes

1. Hold down the MODE button and rotate the Command Dial until *P* (program), a Scene mode icon, *S* (shutter-priority), *A* (aperture-priority), or *M* (manual) is displayed on the monitor.
2. Release the MODE button.

Using Scene Modes

■ To select scene mode, hold down the MODE button and rotate the Command Dial until the Scene icon for the most recently used Scene mode is displayed.

■ To change the Scene mode, first display one of the Scene mode icons as described above, then press the MENU button to display the Scene mode menu. Press the points on the Multi Selector to highlight the icon for the mode you want to use and its name is displayed at the top of the screen. Press down the center point on the Multi Selector to select the highlighted mode.

Using Program and Flexible Program Mode

1. With the camera on, hold down the MODE button, turn the Command Dial until *P* (program) is displayed on the monitor, then release the MODE button.
2. To use flexible program mode, rotate the Command Dial to cycle through any available aperture and shutter speed combinations that yield the same exposure. The mode indicator changes from *P* to *P**

3. When finished, rotate the Command Dial until the *P** changes back to *P*, select another shooting mode, press the Playback button, or turn off the camera.

Using Shutter-Priority Mode

1. With the camera on, hold down the MODE button and turn the Command Dial until an *S* is displayed on the monitor.
2. Release the MODE button and turn the Command Dial to select a shutter speed on the monitor.

Using Aperture-Priority Mode

1. With the camera on, hold down the MODE button and turn the Command Dial until an *A* appears on the monitor.
2. Release the MODE button and turn the Command Dial to select an aperture on the monitor.

Using Manual Mode

1. With the camera on, hold down the MODE button and turn the Command Dial until an *M* appears on the monitor, then release the MODE button. The aperture and shutter speed are displayed on the monitor.
2. Press the MODE button to switch back and forth between the aperture and shutter speed setting. You can tell which is adjustable at the moment because the current setting is displayed on the monitor in green.
3. Rotate the Command Dial to change either apertures (in one-third stops) or shutter speeds (in full stops). As you do so, an exposure scale is displayed on the monitor to indicate how much you are under (-) or over (+) the camera's recommended exposure setting.

Changing the Metering Mode

1. With the camera in P, S, A, or M mode, press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight *Metering* and press the right point to display a submenu of choices.
3. Press the up or down point on the Multi Selector to highlight your choice, and then press the center or right point to set it.
4. Press the MENU button to hide the menu.

Using Exposure Compensation

1. With the camera in any shooting mode, hold down the FUNC / Exposure Compensation (**+/-**) button on top of the camera and rotate the Command Dial to select a setting from –2 (darker) to +2 (lighter) in increments of 1 / 3 of a stop. The monitor displays the result of the changes. Selecting a + value makes the scene look brighter, and selecting a – value makes it look darker. (You can also set exposure compensation on the shooting menu in P, S, A, or M modes by selecting *Exposure Options* and then *Exp. +/–*.)
2. When done, reset exposure compensation to 0.0. In Auto or Scene modes, you can also cancel exposure compensation by selecting another shooting mode or turning off the camera.

Using Exposure Lock

1. Point the camera so the subject that you want to lock exposure on is in the currently active focus area.
2. Press the shutter button halfway down and hold it there to lock in the exposure. The AF lamp next to the viewfinder glows a steady green.
3. Without releasing the shutter button, recompose the scene and press the shutter button the rest of the way to take the picture.

Using Autoexposure Bracketing

1. With the camera set to P, A, S, or M mode press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight *Auto Bracketing*, and press the right point to display a submenu.
3. Press the up or down point on the Multi Selector to highlight *On* and press the right point to display a list of settings.
4. Press the up or down point on the Multi Selector to highlight a combination of exposures and exposure increments and press the center or right point to set it.
5. Press the MENU button to hide the menu. *BKT0* is displayed on the monitor.
6. Take each of the pictures until *BKT0* is again displayed.
7. When finished, repeat Steps 1–3 but select *OFF*. If you don't turn it off, it will repeat the series over and over.

Displaying Histograms

■ In full-screen playback mode, scroll to the photo you want to see a histogram of and rotate the Command Dial until the histogram is displayed. You can then scroll through other images to see their histograms.

Using Histograms

- If the histogram shows most pixels toward the left (darker) side of the graph, use exposure compensation to add exposure (page 50).
- If the histogram shows most pixels toward the right (lighter) side of the graph, use exposure compensation to reduce exposure (page 50).

Turning Info.txt On and Off

1. With the camera in P, S, A, or M, mode, press MENU button to display the shooting menu.
2. Press the right point on the Multi Selector to highlight the Set-up menu icon, then press the down point to activate the Set-up menu.
2. Highlight *info.txt* and press the right point on the Multi Selector to display a list of choices.
3. Press the up or down point on the Multi Selector to highlight *On* or *Off*, then press the center or right point to set it.
4. Press the MENU button to hide the menu.

Using the Self-Timer

1. With the camera in any shooting mode except Fireworks Show in Scene mode, press the Focus button marked with the self-timer sweeping second hand icon until the same icon is displayed on the monitor.
2. With the camera on a stable surface or tripod, press the shutter button all the way down once for a ten-second delay, then press it again once the countdown timer displays "*10*" for a three-second delay. (To cancel the timer, press the shutter button a third time.)

Using Best Shot Selector

1. With the camera in P, A, S, or M mode, press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight the *Best Shot Selector*, and press the right point to display a submenu.
3. Press the up or down point on the Multi Selector to highlight *On* and press the center or right point to select it.
4. Press the MENU button to hide the menu.
5. Hold down the shutter button to take up to 10 pictures and then release it.
6. When finished, repeat Steps 1–4 but select *Off* instead of *On*.

Changing the ISO

1. With the camera in P, S, A, or M mode, hold down the ISO button on the back of the camera and turn the Command Dial to cycle through the settings *AUTO*, *800*, *400*, *200*, and *100*.
2. Release the ISO button and take your photos.
3. When finished, repeat Steps 1 and 2 but select *AUTO* to return to the default setting.

Increasing The Sharpness of Moving Objects

- Photograph fast-moving subjects heading toward or away from you and not from side to side.
- Move farther back from the subject.
- Zoom the lens to a wider angle of view.
- Switch to shutter-priority (page 36) or flexible program (page 34) mode and select a fast shutter speed.
- Increase the camera's ISO although this adds some grain to the image (page 58).

Changing the Autofocus Setting

- With the camera in any mode (some scene modes limit your choices), repeatedly press the Focus button on the back of the camera to cycle through the available modes: autofocus (no icon), infinity (a mountain icon), macro close-up (a flower blossom icon), and macro / self-timer (flower blossom and sweeping second hand icons).

Using AF Area Mode

1. With the camera in P, S, A, or M mode, press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight *Focus Options*, then press the right point to display a submenu.
3. With *AF Area Mode* highlighted, press the right point to display a submenu.
4. Press the up or down point on the Multi Selector to highlight one of the choices, then press the center or right point to set it.
5. Press the MENU button to hide the menu.

Using Manual Focus

1. With the camera in P, A, S, or M mode, hold down the Focus button and turn the Command Dial to manually focus the camera.
2. To cancel manual focus, press and release the Focus button.

Using Focus Lock

1. With the camera in any shooting mode, point it so the subject you want to lock focus on is in the active AF Area.
2. Press the shutter button halfway down and hold it there to lock in the focus. The AF lamp next to the viewfinder glows a steady green.
3. Without releasing the shutter button, recompose the scene and press the shutter button the rest of the way to take the picture.

Turning Focus Confirmation On and Off

1. With the camera in P, A, S, or M mode, press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight *Focus Options*, then press the right point to display a submenu.
3. Press the up or down point on the Multi Selector to highlight *Focus Confirmation* and press the right point to display a submenu of choices.
4. Press the up or down points on the Multi Selector to highlight one of the following choices, then press the center or right point to set it.
   - *MF* sharply outlines subjects that are in focus when you use manual focus (page 66).
   - *On* sharply outlines subjects that are in focus in all focus modes.
   - *Off* turns off focus confirmation.
5. Press the MENU button to hide the menu.

Selecting Continuous or Single Autofocus

1. With the camera in P, A, S, or M mode, press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight *Focus Options*, then press the right point to display a submenu.
3. Press the up or down point on the Multi Selector to highlight *Auto-Focus Mode* and press the right point to display a submenu of choices.
4. Press the up or down point on the Multi Selector to highlight *Continuous AF* or *Single AF*, then press the center or right point to set it.
5. Press the MENU button to hide the menu.

Using the Infinity Focus Setting

- With the camera in Auto, P, A, S, or M mode press the Focus button on the back of the camera until the infinity focus icon (a mountain) is displayed on the monitor.

Increasing Depth of Field

- Photograph in bright sun so the aperture closes down.
- Zoom the lens out to a wider angle of view.
- Move farther away from the subject.
- Switch to aperture-priority (page 38) or flexible program (page 34) mode and select a small aperture.
- Switch to infinity focus.

Using Focus Lock for Maximum Depth of Field

1. Point the camera so the area you want to focus on is in the active AF Area. In a landscape, pick something about one-third of the way between you and the horizon. For other scenes, pick something to focus on that's one-third of the way between the nearest and farthest points that you want to be sharp.
2. Press the shutter button down halfway and hold it there to lock in the focus. The AF lamp next to the viewfinder glows a steady green.
3. Recompose the scene and press the shutter button the rest of the way to take the picture.

Using Focus Lock for Minimum Depth of Field

1. Zoom the lens in to magnify the subject or move close to it and focus the camera on, or slightly in front of, the subject you want sharpest.
2. Press the shutter button down halfway and hold it there to lock in the focus. The AF lamp next to the viewfinder glows a steady green.
3. Recompose the scene and press the shutter button the rest of the way to take the picture.

Decreasing Depth of Field in Automatic Mode

- Photograph in dim light to open up the aperture.
- Zoom the lens in to enlarge the subject.
- Move closer to the subject.

Capturing Creative Blur

- Set the camera to shutter-priority (page 36) or flexible program (page 34) mode and select a slow shutter speed.
- Try blurring images in low-light situations. In bright light, the shutter will open and close too fast.
- In some situations, you may want to turn the flash off when trying to blur nearby subjects (page 106).
- At night select *bulb* to keep the shutter open as long as you hold down the shutter button up to one minute (page 83).

Setting White Balance

1. With the camera in P, S, A, or M mode press the MENU button to display the shooting menu.
2. Press the down point on the Multi selector to highlight *White Balance* and press the right point to display a submenu of choices.
3. Press the up or down point on the Multi Selector to highlight your choice and then press the center or right point to set it.
4. Press the MENU button to hide the menu.

Setting White Balance Preset

1. With the camera in P, S, A, or M mode press the MENU button to display the shooting menu.
2. Press the down point on the Multi selector to highlight *White Balance* and press the right point to display a submenu of choices.
3. Press the up or down point on the Multi Selector to highlight *White Bal Preset* and press the right point to zoom the lens and display the White Balance Preset screen and menu.
4. Do one of the following:

   ■ Point the camera at the white card or other white subject so it fills the frame, highlight *Measure*, and press the center or right point on the Multi Selector. The camera beeps, measures the color temperature, and resets white balance.

   ■ Highlight *Cancel* and press the center or right point on the Multi Selector to return white balance to its most recent setting.
5. Press the MENU button to hide the menu.
6. When finished, repeat Steps 1–3 to select another white balance setting, or Steps 1–4 to reset white balance and try again.

Using White Balance Bracketing

1. With the camera in P, S, A, or M mode press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight *Auto Bracketing*, and press the right point to display a submenu.
3. Press the up or down point on the Multi Selector to highlight *WB Bracketing* and press the center or right point to set it.
4. Press the MENU button to hide the menu. *WB-BKT* is displayed on the monitor.
5. Press the shutter button once for each picture.
6. When finished, repeat Steps 1–4 but select *Off* instead of *WB Bracketing*.

Turning Noise Reduction On and Off

1. With the camera in P, S, A, or M mode press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight *Noise Reduction*, and press the right point to display a submenu of choices.
3. Press the up or down point on the Multi Selector to highlight *On* or *Off* and then press the center or right point to set it. When on, the noise reduction icon (*NR*) is displayed on the monitor.
4. Press the MENU button to hide the menu and take your photos. When on, the noise reduction icon is displayed on the monitor.

Using Bulb

1. With the camera on, hold down the MODE button and turn the Command Dial until an *M* (for manual exposure) appears on the monitor, then release the MODE button. The aperture and shutter speed are displayed on the monitor.
2. Press the MODE button to switch to the shutter speed setting. You can tell which is adjustable at the moment because the current setting is displayed in green or yellow on the monitor.
3. Turn the Command Dial to change the shutter speed until *BULB5M* is displayed on the monitor.
4. Press the shutter button all the way down and hold it there until you get the exposure time you want and then release it.

Zooming the Lens

To zoom the lens, press zoom-out (W) to widen the angle of view and zoom-in (T) to enlarge subjects. As you zoom, an indicator displayed on the monitor indicates the amount of zoom.

Turning Fixed Aperture On and Off

1. With the camera in P, S, A, or M mode, press the MENU button to display the shooting menu.
2. Press the down button on the Multi Selector to highlight *Zoom Options* and press the right point to display a submenu.
3. Press the down button on the Multi Selector to highlight *Fixed Aperture* and press the right point to display a list of choices.
4. Highlight *Off* or *On* and press the center or right point on the Multi Selector to set it.
5. Press the MENU button to hide the menu.

Setting the Zoom Startup Position

1. With the camera in P, S, A, or M mode, press the MENU button to display the shooting menu.
2. Press the down button on the Multi Selector to highlight *Zoom Options* and press the right point to display a submenu.
3. Press the down button on the Multi Selector to highlight *Startup Position* and press the right point to display a list of choices.
4. Highlight one of the choices described below and press the center or right point on the Multi Selector to select it.

   ■ *Last Position* returns the lens to the same position is was set to when you last turned off the camera.

   ■ *Wide* sets the lens to the fully zoomed out position.
5. Press the MENU button to hide the menu.

Using Digital Zoom

1. With the camera is any shooting mode and the monitor on, use the monitor to compose your image.
2. Press the zoom-in (T) button to zoom all the way into the subject and then continue to hold it down for 2 seconds.
3. When the camera goes into digital zoom, the zoom indicator on the monitor turns yellow and the AF lamp next to the viewfinder blinks green. You can adjust the degree of magnification with the zoom in (T) or zoom out (W) buttons.
4. To return to optical zoom, press the zoom-out (W) button until the digital zoom indicator on the monitor changes back to white.

Turning Digital Zoom Off and On

1. With the camera in P, S, A, or M mode, press the MENU button to display the shooting menu.
2. Press the down point on the Multi Selector to highlight *Zoom Options*, and press the right point to display a submenu of choices.
3. With *Digital Tele* highlighted, press the right point to display a list of choices.
4. Use the up or down point on the Multi Selector to highlight *On* or *Off* and press the center or right point to select it.
5. Press the MENU button to hide the menu.

Using Lens Converters

1. With the camera in P, S, A, or M mode, press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight *Lens*, and press the right point to display a submenu of choices.
3. Press the up or down point on the Multi Selector to highlight your choice and then press the center or right point to set it.
4. Press the MENU button to hide the menu.
5. When finished, repeat Steps 1–4 but select *Normal*.

Changing Flash Modes

■ With the camera in any shooting mode, repeatedly press the Flash / ISO button on the back of the camera until the icon is displayed for the flash mode you want to use. (No flash icon indicates Auto flash.) The flash modes available in Scene mode depend on which Scene mode you have chosen.

Changing Speedlight Options

1. With the camera in P, S, A, or M mode, press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight *Speedlight Opt*, and press the right point to display a submenu. Use the points on the Multi Selector to choose from the following settings:

   ■ With *Pop Up* highlighted, press the right point on the Multi Selector to display choices. Select *Auto* or *Manual*, then press the center or right point to set it.

   ■ With *Variable Power* highlighted, press the right point on the Multi Selector to display a setting scale. Press the up point to increase the flash power (+) and the down point to decrease it (-), then press the center or right point to set the specified power.

   ■ With *Speedlight Cntrl* highlighted, press the right point on the Multi Selector to display choices. Select *Internal Off* or *Int&Ext Active*, then press the center or right point to set it.
3. Press the MENU button to hide the menu.
4. When finished, repeat Steps 1–3 to change the settings back.

Using red-Eye Mode

1. With the camera in any shooting mode, repeatedly press the Flash / ISO button on the back of the camera until the *red-eye reduction* icon (an eye) is displayed on the monitor.
2. When finished, to return to auto flash, repeatedly press the Flash / ISO button until no flash icon is displayed on the monitor.

Using Anytime Flash Mode

1. With the camera in any shooting mode, repeatedly press the Flash / ISO button on the back of the camera until the *anytime flash* icon (a lightning bolt) is displayed on the monitor.
2. When finished, to return to auto flash, repeatedly press the Flash / ISO button until no flash icon is displayed on the monitor.

Using Slow Sync Flash Mode

1. With the camera in any shooting mode, repeatedly press the Flash / ISO button on the back of the camera until the *slow sync* icon is displayed on the monitor.
2. When finished, to return to auto flash, repeatedly press the Flash / ISO button until no flash icon is displayed on the monitor.

Using Flash Cancel

1. With the camera in any shooting mode, repeatedly press the Flash / ISO button on the back of the camera until the *flash cancel* icon is displayed on the monitor.
2. When finished, to return to auto flash, repeatedly press the Flash / ISO button until no flash icon is displayed on the monitor.

Taking Macro Close-ups

1. With the camera in Auto, P, S, A, or M mode, press the Focus button on the back of the camera until the macro close-up flower blossom icon is displayed, or the macro icon and a sweeping second hand icon if you are using the self-timer (page 57).
2. Compose the photo on the monitor. To frame and focus the image, use the zoom buttons, and move the camera closer to or farther from the subject. When zoomed to the midrange where extreme close-ups are possible, the macro icon on the monitor turns yellow.
3. Press the shutter button halfway down to lock in focus then all the way down to take the picture.

Increasing depth of Field in Close-ups

- Increase the illumination of the subject to stop down the aperture.
- Don't get any closer to the subject than you have to.
- Focus on something in the middle of the scene (front to back) since in close-ups, depth of field is half in front and half behind the plane of critical focus.

Adjusting Brightness and Contrast

1. With the camera in P, S, A, or M mode, press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight *Image Adjustment*, and press the right point to display a submenu of choices.
3. Press the up or down point on the Multi Selector to highlight your choice and then press the center or right point to set it.
4. Press the MENU button to hide the menu.

Specifying Image Sharpness

1. With the camera in P, S, A, or M mode, press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight *Image Sharpening*, then press the right point to display a submenu.
3. Press the up or down point on the Multi Selector to highlight your choice and press the center or right point to set it.
4. Press the MENU button to hide the menu.

Adjusting Saturation

1. With the camera in P, S, A, or M mode, press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight *Saturation Control*, and press the right point to display a submenu of choices.
3. Press the up or down point on the Multi Selector to highlight your choice and then press the center or right point to set it.
4. Press the MENU button to hide the menu.

Taking Panoramas

1. With the camera on, hold down the MODE button and rotate the Command Dial until the most recently used Scene mode icon is displayed in the lower left corner of the monitor.
2. Press MENU, highlight the Panorama Assist mode icon, then press the center of the Multi Selector to select it. The default pan direction arrow (left to right) is displayed. To change the direction in which you will shoot the sequence, press the points on the Multi Selector.
3. Take the first photograph and about one third of it will be displayed on the monitor superimposed over the view you see through lens. If you are panning from left to right, the picture will be displayed on the left side of the monitor.
4. Align each of the other shots and take them.
5. When finished, press the center point on the Multi Selector to end the series.

Attaching a Voice Memo to a Photo

1. With the camera in any shooting mode, press the Playback button twice to display full-screen the last photo you took.
2. Press the points on the Multi Selector to scroll to the image you want to attach a voice memo to.
3. Hold down the FUNC button and speak into the microphone (the three holes to the left of the Command Dial). As you speak a countdown timer is displayed on the monitor. When finished recording, release the FUNC button.

Playing Back a Voice Memo

1. With the camera in any shooting mode, press the Playback button twice to display full-screen the last photo you took.
2. Press the points on the Multi Selector to scroll to the image the voice memo is attached to. It will be marked with a musical note icon.
3. Press the FUNC button to hear the message. Playback ends when the recording ends or you press the FUNC button a second time.

Using Continuous Photography

1. With the camera in P, S, A, or M mode, press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight *Continuous*, and press the right point to display a list of choices.
3. Press the up or down point on the Multi Selector to highlight your choice, then press the center or right point to set it.
4. Press the MENU button to hide the menu.

Using User Sets

1. With the camera in P, S, A, or M mode, press the MENU button to display the shooting menu.
2. Highlight *User Setting* and press the right point on the Multi Selector to display a list of three settings (the numbers 1, 2, or 3 in boxes)
3. Press the up or down point on the Multi Selector to select a user set**,** then press the center or right point to set it.
4. Press the MENU button to hide the menu.

Choosing or Deleting Folders

1. With the camera in any shooting mode, press the Playback button twice to display full-screen the last picture you took, then press the MENU button to display the playback menu.
2. Press the down point on the Multi Selector to highlight *Folders* and press the right point to display a list of folders.
3. Do one of the following:

   ■ To select a folder, press the up or down point on the Multi Selector to highlight the folder you want to use, and press the right point to select it.

   ■ To delete a folder, press the up or down point on the Multi Selector to highlight *Delete*, then press the right point to display a list of folders. Press the up or down point to highlight the folder you want to use, and press the right point to display a confirmation prompt. Highlight *Yes* and press the center or right point.
4. Press the MENU button to hide the menu.

Using Perspective Control

1. With the camera in any shooting mode, press the Playback button twice to display full-screen the last picture you took.
2. Press the points on the Multi Selector to scroll to the image you want to correct and then press the MENU button to display the playback menu.
3. Press the down point on the Multi Selector to highlight *Perspective Control* and press the center or right point to display two guidelines on the screen.
4. Press the up or down point on the Multi Selector to adjust the image, then press the center or right point to set it.

   ■ The up point horizontally expands or shrinks the top of the image, reducing distortion in pictures taken from a low angle.

   ■ The down point horizontally shrinks and expands the bottom of the image, reducing distortion in pictures taken from a high angle.
5. Press the MENU button to hide the menu.

Creating a Small Pic

1. With the camera in any shooting mode, press the Playback button twice to display full-screen the last picture you took, then press the MENU button to display the Playback menu.
2. Press the down point on the Multi Selector to highlight *Small Pic* and press the center or right point to display a list of small image sizes.
3. Press the up or down point on the Multi Selector to highlight one of the sizes and then press the right or center point to select it.
4. Press the MENU button to hide the menu.
5. Scroll to any image you want a smaller copy of and press the MODE button. When prompted to confirm the procedure, highlight *Yes* and press the center or right point on the Multi Selector.

Preparing Print Sets

1. With the camera in any shooting mode, press the Playback button twice to display full-screen the last picture you took, then press the MENU button.
2. Press the down point on the Multi Selector to highlight *Print Set* and press the right point to display thumbnail images.
3. Press the left or right point on the Multi Selector to highlight a thumbnail image and press the up or down point one or more times to specify the number of prints you want of that image (maximum of 9—minimum of 0).
4. Press the center point of the Multi Selector to complete the procedure and a screen of choices appears.
5. Highlight *Done* and press the center or right point on the Multi Selector to select it. (You can also highlight the *Info* and *Date* choices and press the center or right point to turn them on or off. *Date* prints the date on the image and *Info* prints the aperture and shutter speed used to capture it.)

Deleting a Print Set

1. With the camera in any shooting mode, press the Playback button twice to display full-screen the last picture you took, then press the MENU button.
2. Highlight the *Delete* command and press the right point on the Multi Selector to display a list of choices.
3. Highlight *Print Set* and press the center or right point on the Multi Selector again to delete the print set.
4. Press the MENU button to hide the menu.

Using the Set-up Menu

1. With the camera in playback, P, S, A, or M mode, press MENU button to display the shooting menu. Press the right point on the Multi Selector to highlight the Set-up menu icon, then press the down point to activate the Set-up menu.
2. Follow the instructions at the end of the appropriate section that follows.
3. Press the MENU button to hide the menu.

Using AE Lock

1. With the camera set to P, A, S, or M mode press the MENU button to display the shooting menu.
2. Press the up or down point on the Multi Selector to highlight *Exposure Options*, and press the right point to display a submenu.
3. With *AE Lock* highlighted, press the right point to display a list of settings.
4. Press the up or down point on the Multi Selector to highlight a setting and press the center or right point to set it.
5. Press the MENU button to hide the menu. When on, *AE-L* is displayed on the monitor in yellow indicating that AE lock is on, but exposure has not yet been locked.
6. If you turned AE lock on, or Reset it, take each of the pictures. After the first one, the *AE-L* indicator on the monitor changes from yellow to white to let you know exposure has now been locked.
7. When finished, repeat Steps 1–3 but select *Off*. If you don't turn it off, AE lock will remain on.

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